

A1 end a
a magnification changer for changing magnification of the group of lenses; and
an aperture disposed at or in the vicinity of a far field pattern position on an
optical path of the light beam and having an opening in which only a portion of the light beam is
transmitted therethrough.

2. (Amended) The optical system of claim 1, wherein the light source is capable
of emitting multiple light beams simultaneously.

7. (Amended) An optical system for use in scanning a surface, the optical system
comprising:

A2
a light source including a broad light emission area comprising point-like light
sources arranged in at least one direction;

a lens group which condenses a light beam emitted from the light source to a
surface to be scanned;

a magnification changer which moves at least one lens of the lens group along an
optical axis direction of the light beam for changing magnification of the lens group; and

an aperture disposed at or in the vicinity of a far field pattern position on an
optical path of the light beam and including an opening which transmits only a portion of the
light beam therethrough.

8. (Amended) The optical system of claim 7, wherein the light source is capable
of emitting multiple light beams simultaneously.
